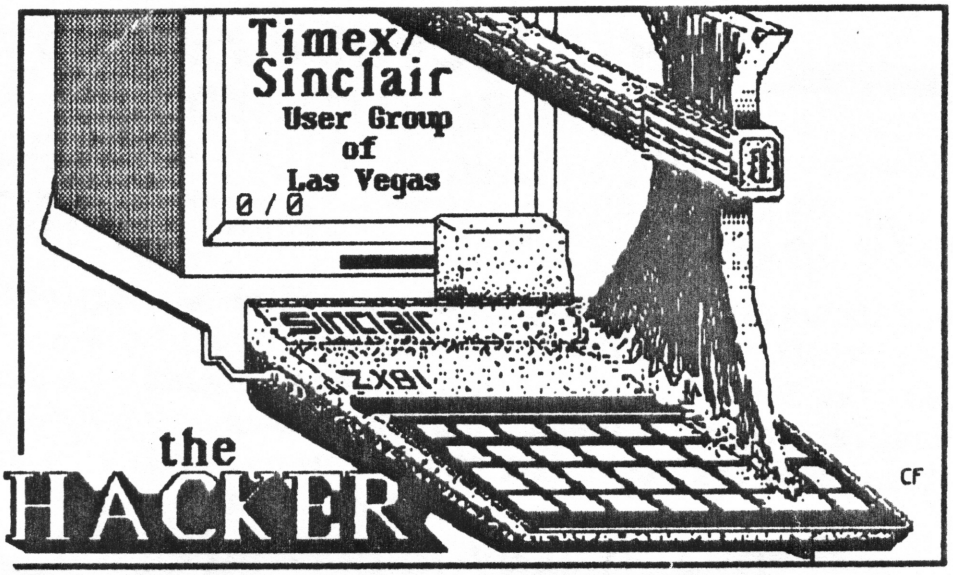

the HACKER

Newsletter Dedicated To All Personal Computers

"the HACKER" is an official publication of the Timex/Sinclair User Group of Las Vegas-a non profit, educational organization. Subscription to the "HACKER" is $15.00 per year (12 issues) and includes membership to TSUG of LV. Please remit to:

Ralph Hammer(treasurer)
2105 Oakwood Ave.
Las Vegas, NV 89030

Meeting Date

LET'S GET TOGETHER

Jan. 21,1990-----1-3 pm.

PC SIG----------3-4 pm.

Meetings are held on the 3rd. Sunday of each month. Bring a guest. All are WELCOME.

BOARD of DIRECTORS:
CHRIS FENN----------641-4082
RALPH HAMMER--------649-4127
STEVE SAWCHUK--------451-6676

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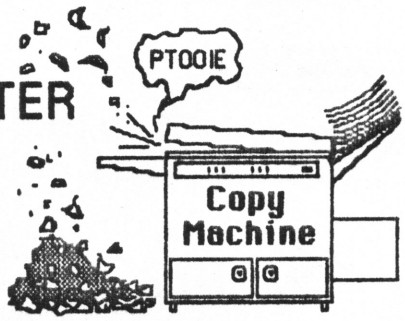
STEVE SAWCHUK----- EDITOR IN CHIEF
RALPH HAMMER-------CO-EDITOR
CHRIS FENN--------- ART DIRECTOR
AMY DICKINSON-----CIRCULATION MGR.

H.A.T.S. NEWSLETTER PRINTS ITS FINAL ISSUE



As a Newsletter editor, it is always sad to report the disbanding of a user's group and receiving the final issue of a group newsletter. When a group such as **HATS** ceases, the T/S community becomes smaller and smaller. Dave Bennett states in his last and final newsletter that their last meeting was held on Dec. 8th. and it was suggested at that time that they disband and give their support to the **CATS** group.

The local members of the group will continue to meet, but not as an offical Users Group. They will however, represent CATS at Harrisburg area Computer Fests. The group was formed in May of 1986 and the N/L in July of 1986.

Farewell Harrisburg, your newsletter will be missed by all.

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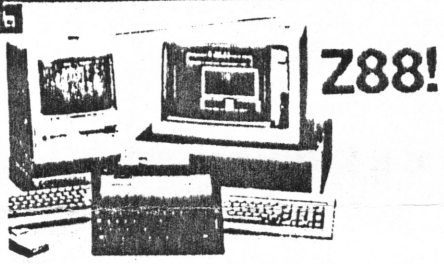
TDM REPORTED TO BE BACK IN BUSINESS

The on-again, off-again reports on the demise of the infamous **TDM** has resurfaced once more. This time the **PLOTTER N/L** has received the latest issue of **Volume 5, Number 2!** Can you beleive it ???? If you have given up on ever seeing another issue, there still might be hope.

If you are still missing back issues, there still might be a chance to get them by contacting Tim on his **TDM BBS** at **503/ 8244-2658 8/1/N 300 baud only**. and leave him a message including details on when you paid, and how you paid along with your complete name and address. If you don't have a modem, do the same by mail. It will get there sooner or later.

I'm sure that Tim is trying to resolve this matter and get the mgazine published in the grand manner that we were all accustomed to. Hang in there **Tim**, I know you can do it.



Z88!

The Z88 imports/exports work files from both IBM and Macintosh

We Support the Z88!

We just wanted you to know that we will be supporting the Z88 to the best of our ability! If there is anything that you would like for your Z88 computer, be sure to let us know! As more and more products become available for this fine new portable computer, RMG will have it for you. If we don't, let us know and we will do our best to get it for you—FAST!

For more information or prices, contact us at the address or phone given below:

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by.....John Sumpolec

Last month I gave you an article on the VIRUS which I hope you all enjoyed. This month I thought I would give you a list of most of the corrupted programs that are floating around on the boards. I got this list a while back, but I am sure it is still current. As yet, I havn't seen any of these files on any of the local boards. If you run across any of them, be sure and let the board SYSOP know about them. I did have a copy of the FINANCE4.ARC program, but I have since deleted it from my files. I am taking no chances. So here for your information is the list.

| TROJAN HORSE PROGRAMS: |

Name:	Category:	Notes:
ANTI-PCB	T	The story behind this trojan horse is sickening. Apparently one RBBS-PC sysop and one PC-BOARD sysop started feuding about which BBS system is better, and in the end the PC-BOARD sysop wrote a trojan and uploaded it to the rbbs SysOp under ANTI-PCB.COM. Of course the RBBS-PC SysOp ran it, and that led to quite a few accusations and a big mess in general. Let's grow up! Every SysOp has the right to run the type of BBS that they please, and the fact that a SysOp actually wrote a trojan intended for another simply blows my mind.
ALTCTRL.ARC	T	This program reputedly trashes boot records. Other than that, I know nothing about it.
ARC513.EXE	T	This hacked version of SEA's ARC.EXE appears normal. However, it writes over track 0 of your [hard] disk upon usage, destroying the disk's boot sector.
ARC514.COM	T	This is completely similar to arc version 5.13 in that it will overwrite

track 0 (boot sector) of your hard disk. Also, I have yet to see an .EXE version of this program..

BACKALLY.COM 64512 **T** This sophisticated trojan will axe your FAT table after a couple of months of usage. Beware the delayed trojan! Backally MAY only work on floppy disks, but that sounds unlikely. Debug has shown that BACKALLY formats a track at one point as well as reading in the amount of freespace on your disk. It may only wipe out full disks, like NOTROJ. Please, be wary! An included .BAT file comes with a request for donations to "SomeWare" located in Frederickburg, VA. Look out for other products from SomeWare!

BACKTALK **T** This once beneficial utility will write/destroy sectors on your [hard] disk drive. Use this with caution if you acquire it, because it's more than likely that you got a bad copy. è

CDIR.COM **T** This program supposedly gives you a color directory of files on disk, but it in fact scrambles your disks FAT table.

COMPRESS.ARC **T** This trojan, dated April 1, 1987, destroys FAT tables. COMPRESS is executed from a file named RUN-ME.BAT and is advertised as a 'Shareware 'ARC' from Borland!'

DANCERS.BAS **T** This trojan shows some animated dancers in color, and then proceeds to wipe out your [hard] disk's FAT table. There is another perfectly good copy of DANCERS.BAS on BBS's around the country; apparently the author altered a legitimate program to do his dirty work.

DEFENDER.ARC T This trojan both writes to ROM bios and formats [hard] disks. The Duplicators claim credit for this trojan; be ware of other products by them. Also, do not confuse this trojan with DEFENDER by Atari. The latter is a pirated program.

DISCACHE.EXE T This program uses direct BIOS routines to write to disk. Apparently, those BIOS routines will scramble your FAT table. Please see DISCACHE.WNG, a file that I'm looking for myself, for more information.

DISKSCAN.EXE T This was a PC Magazine program to scan a [hard] disk for bad sectors, but then a joker edited it to WRITE bad sectors. Also look for this under other names such as **SCANBAD.EXE** and **BADDISK.EXE**...

DMASTER T This is yet another FAT scrambler..

DOSKNOWS.EXE T I'm still tracking this one down -- apparently someone wrote a FAT killer and renamed it DOSKNOWS.EXE, so it would be confused with the real, harmless DOSKNOWS system-status utility. All I know for sure is that the REAL DOSKNOWS.EXE is 5376 bytes long. If you see something called DOSKNOWS that isn't close to that size, sound the alarm. More info on this one is welcomed -- a bagged specimen especially.

DPROTECT T Apparently someone tampered with the original, legitimate version of DPROTECT and turned it into a FAT table eater. è

DROID.EXE 54272 T This trojan appears under the guise of a game. You are supposably an architech that controls futuristic droids in search of relics. In fact, the program copies C:\PCBOARD\PCBOARD.DAT to C:\PCBOARD\HELP\HLPX if PC-Board SysOps

run it from C:\PCBOARD

EGABTR **T** BEWARE! Description says something like "improve your EGA display," but when run it deletes everything in sight and prints "Arf! Arf! Got you!"

ELEVATOR.ARC **T** This poorly written trojan suggests in the documentation that you run it on a floppy. If you do not run it on a floppy, Elevator chastises you for not reading the documentation. Regardless of what disk you run it on, Elevator will erase your files. It MAY format disks too; be careful. One more interesting point to note: my name is plastered all over this program; the writers attempt to lay the blame for this trojan on me.

EMMCACHE ????
V. 1.0 **C** This program is not exactly a trojan, but it may havethe capability of destroying hard disks by:
A) Scrambling every file modified after running the program,
B) Destroying boot sectors.
This program has damaged at least two hard disks, yet there is a base of happily registered users. Therefore, I advise extreme caution if you decide to use this program.

FILER.EXE **T** One SysOp complained a while ago that this program wiped out his 20 Megabyte HD. I'm not so sure that he was correct and/or telling the truth any more. I have personally tested an excellent file manager also named FILER.EXE, and it worked perfectly. Also, many other SysOp's have written to tell me that they have like me used a FILER.EXE with no problems. If you get a program named FILER.EXE, it is probably allright, but

better to test it first using some security measures.

FINANCE4.ARC ?????? **C** This program is not a verified trojan, but there is a file going around BBS's warning that it may be trojan. In any case, execute extreme care with it. è

FUTURE.BAS **T** This "program" starts out with a very nice color picture (of what I don't know) and then proceeds to tell you that you should be using your computer for better things than games and graphics. After making that point it trashes your all of your disk drives, starting with disk A:. Not only does Future scramble FATs, but it also erases files. As far as I know, however, it erases only one sub-directory tree level deep, thus hard disk users should only be seriously affected if they are in the "root" directory. More information about this is especially welcome.

MAP **T** This is another trojan horse written by the infamous Dorn W. Stickle. I believe that there are legitimate MAP.EXEs floating around.

due to the large number of viruses floating around, this article will be continued in next months issue.

Quotes of the Month

Good advice usually works best when proceeded by a bad scare.

One man practicing sportsmanship is far better than 50 preaching it.

Statstics are no substitute for judgement.

FROM THE DISK OF...
CHRIS FENN

New Cambridge DOS Laptop announced:

Cambridge Computer has let word out on their long awaited new laptop. The **3.5 lb. MS-DOS compatable** is reported to be an inch thick. It can be configured to one 3.5" floppy drive,two 3.5" floppies,or one 3.5" floppy and one hard drive of 20 or 40 MEG capacity. This would position the Z90? in a cherished niche for DOS laptops. MS-DOS users are clamoring to get their hands on under 5 lb. machines, and the new **Sinclair** will be the first to offer that kind of HARD DRIVE storage in a under 5 lb. laptop. The (non-confirmed) early prices I've heard put the low-end machine with one floppy at less than $1500 and with a hard drive at less than $2000.

The reigning "darling" of the featherweight laptop set is the 4.4 lb. NEC Ultralite. The Ultralite comes equipped with a 2400 BPS modem, a 1 MEG RAM DISK and a nice backlit display. There is no hard drive offered and you have to purchase the external disk drive to get a parallel printer port. Trying one at COMDEX I found the keyboard to be a serious drawback (and I use a Z88), also battery life is almost laughable at less than 2 hrs. The lightest laptop out with a hard drive would be the new Compaq LTE, at a heavy 6.7 lbs. and $3000. Battery life on the LTE is rated for 3.5 hrs.

At the other end of the spectrum we have the new wave of pocket DOS machines; the new Atari Portfolio and the $2000 Poqet. The Atari when fully configured for DOS is fairly pricey and you have to contend with a tiny screen and keyboard. The one drawback for the Poqet may be it's price (and perhaps a very expensive mass storage system). It may not be fair to compare the new Sinclair with these as they were meant for different applications but at 3.5 lbs.the Sinclair could be encroaching on some of their territory.

I've not heard of the Z90's battery life,display,ports or keyboard. Also I don't know if the new one will behave anything like the Z88, in relation to task-switching or built-in software. Although Cambridge could probably sell many of them; it would be a shame to introduce another me-too MS-DOS machine, but at 3.5 lbs it would be the lightest in it's class.

To keep its weight down to this level I would imagine it may not utilize a conventional type keyboard and may retain the same type used on the Z88. While I don't mind the Z88's keys at all I'm not sure it can gain wide acceptance. Also, I would guess that the screen is not backlit. I have to agree that most backlit LCD screens are nicer than non-backlit,I also realise that it's the backlighting that saps most of the energy in a laptop's power pack and non-backlit does not necessarily spell B-A-D as proven by Apple's new Portable and PSION's new line of Mobile Computers (up to 75 hr. battery life

It is of my belief that if it's important enough to do on a laptop you should be able to do it away from the power outlet.

I can only guess that it will be black, and I'm not sure about it's shape. If it's an inch thick; that doesn't leave much room for a fold out clamshell type screen and if it's configured like a Z88 notebook type then the screen might have to be fairly squashed.

We'll have these questions answered in April as that's when it's due out. (So much for my guess that Clive's next machine would be a RISC desktop computer.)

TSUG of L.V. HAS CHANGE OF COMMAND

In a bold stroke of both the pen, and the back of the hand, it was decided by the Las Vegas T/S Users Group, that **Ralph Hammer** take over the duties of **"Group Librarian"**. Meaning to say, that he now gets all those dusty ole boxes to store at HIS house.

Futhermore, it was resolved that he contact several P/D Libraries, and purchase sets of P/D software for disemination and use within our own Group. 2068 files will be backed up on his LKdos system, along with any 1000/1500 files placed within the confines of the Groups' library.

Since most T/S Groups are getting in on P/D libraries for their region, we are not about to be left out in the cold.

We feel that regional libraries will only promote usage by T/S users everywhere.

PARTIAL REVIEW OF MAXCOM

by.. Ralph Hammer

Within the confines of that great new Terminal/BBS software of MAXCOM, written by Larry Kenny, and enhanced by Jack Dohaney, lies a utility program called "Deluxe Move". I would call it LUXURIOUS.

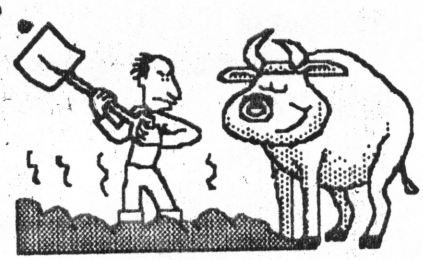
While running MAXCOM to see the "How, What For, and Why", I tried out the "Deluxe Move" portion. BRAVO, HORRAY, and THREE CHEERS, Larry has reconcieved and brought forth a beauty of a utility.

"Deluxe Move" lets you move certain files, which are marked with an "X", from one disk to another, between drives and etc., with ease. All you do is CATalog your disk, mark the files to be moved, and the computer does the rest. Who said that this little TS can't do what the Big Boys can ?? Wait till the guys down at the office see this...

I commandeered the "Deluxe Move" program onto another disk, modified it slightly for my use, made a back-up, and set my sights on some future work. Any "MOVEing" from now on will be a joyride.

Thanks a million times over, Larry and Jack. I luv ya for this one.

THE HONEST TRUTH



by.....Ralph Hammer

Well, Christmas is now past, the kids and dads have gotten their new toys, and we are embarking into a new decade. Got some real goodies for you all this month, so let's get right to them.

Got a call from **Chuck Ridgway**, the librarian for our fellow **TS Users Group** down in **San Angelo, TX.** He mentioned that although **Rod Gowen** of **RMG Enterprises** had gotten hold of S/W and H/W from **EZKey**, most of those items were TS2068 specific. Chuck went on to say that he has some **TS1000** items. If you're in the market, or just want to know what he's got, write to him at:

S.A.T.S.
c/o Chuck Ridgway
2816 Chestnut
San Angelo, TX 76901

I recieved my very own copy of **MAXCOM** from **RMG Enterprises** the day after Christmas. And yes, Virginia, **MAXCOM** is everything and more that it's chalked up to be. I don't claim to be a spokesman for either **RMG** or **Larry Kenny**, but I've got to tell you, if you haven't gotten it as yet, chase those moths out of your wallet, and pull out twenty-five of those Washingtons. **MAXCOM** will truly make your day.

Along with my order from **RMG, Rod Gowen** sent a couple of flyers on some specials for sale. One of them was a page-one of a four-pager covering the inventory of his recent **WMJ Data Systems** buy-out. I won't steal any of his thunder, so get off your duff, get on his mailing list, and see what all he's got.

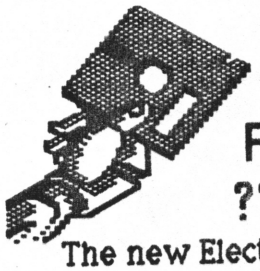
As reported earlier in this N/L, the **Harrisburg TS Users Group** has ceased operations, but the members have joined in with other Groups. Their informative N/L's will be sorely missed by all of us.

The last page of this N/L will have my one and only **"CUBE-IT"** program. I'm releasing it to the Public Domain files, if it's not already there. If you haven't got this great little 2068 program in your midst, grab it now.

The Staff of **"the Hacker"** has included a word search puzzle, containing the names of TS User Groups newsletters. Either make a copy from your Groups' issue, or send a SASE to the Editor for one. The answers will be published next month.

One last item, rumor has it that the **DTP** that **Larry Kenny** is working on, will be released in about a month or two. Keep posted for more details.

That's about it for this month, I'll be back again real soon with more **"Honest Truth"**.



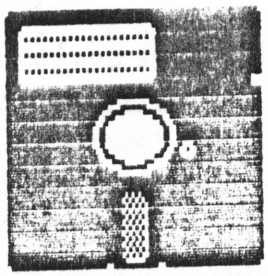
TOSS YOUR FLOPPIES ??????????

The new Electronics magazine has an article on Anamartic's new Wafer Stack silicon hard drives. Anamartic

is one of Sir Clive's other companies. Interestingly enough; Fujitsu is a major investor in this project (Fujitsu also has alot to do with the new "Poqet"). Tandem is also an investor in Anamartic and may be one of the first to use them in one of their own products (OLTP system). The "Wafer Stacks" are about 6"X 6"(soon to shrink to 5.25",and then 3.5"). The current product holds 40 MEGs with a 1 ms (FAST)access time. You can stack up to 4 of these drives together. Don't look for Clive to offer one soon for the Z88 as they are selling for $11,680 each. While this sounds like a fortune; it's not too bad compared to other solid state drives. DEC's ESE20 is a 120 MEG solid state drive that sells for $120,000 where as 160 MEG worth of Anamartics Wafer Stack will go for about $28,760 incuding controller and SCSI I/F. The savings in cost come from higher chip yeild as the entire wafer is used instead of cutting up the wafers to smaller chips to then be wired back together. The bad bits are mapped and indexed on a flash EPROM so the drive will avoid them. One other obvious benefit from this system is that the reliability is excellent due to the lack of moving parts. C'mon Clive, just throw one in with every Z88 (..and make up for the loss in volume ‹grin›).

Two of Sir Clives other projects is a small sattelite dish that's being marketed in the UK, and he's been working on cellular phone technology under the moniker Shayne electronics (I think). At least these are projects that have ready made markets. I have one of Clive's FM watches (1985?), it's a nifty little watch that really pulls in the stations, but who really wanted to listen to a tiny watch when you could spend $20 for a decent sounding stereo that would fit in your pocket?...it is neet though!

DISK SYSTEMS!



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Well! it's over. All that Christmas wrapping in the trash, along with some of the broken toys that were so cute. The exchanges and refunds are made at your favorite malls. And it's time to sit back and really do some serious computing (like tax preparations).

The year has really gone by fast. A lot of things has happened during the past few months. Some sad and some good. The demise of some of the best newsletters and publications. As well as the apparance of some. Some of the best software has hit the market recently and some of the best has bit the dust. Also a few software companies has gone out of business and sold all stock to other retailers. But the name Sinclair still hangs on.

TS Bulletin has reported a rumor prediction about a Macintosh emulator for the QL. Chris Fenn states "**now this idea may force me to bring my QL out of the closet. Also, this would help with my work.**" (Chris is a graphic artist that uses mainly MAC computers)

Computer Shopper has discontinued all reporting of the **Classic Computer section**. This also includes TI/99, Commodore 64, and the Sinclair line. The editorial that was printed in the Janurary 1990 issue, states "**We have chosen to discontinue our coverage of these machines in favor of providing other services and enlarging and improving our coverage of those systems that more fully represent the mainstream of modern computing**". WHAT A CROCK OF HORSE S_____ That was the sole reason for my subscription. The coverage of the Sinclair Computer. Well I'm not going to renew if they think that I don't have a machine that can do modern computing. Now that I have that off my chest, I will close and wish all the readers a Happy New Year, And hope that everything goes well for all in this new decade. See you at all the meetings this year. Lets keep **Sinclairing** all the time.....

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Nothing to do on these Cold Winter Nights????

So here you sit, with nothing to do. It's been cold here too, so I made up this little puzzle for you.

Somewhere in this maze, you'll find the names of the most popular Timex/Sinclair related newsletters in North America. If I missed anybody, I apologize in advance. So everyone, have at it, and have a good time, courtesy of the Staff of "the HACKER".

TIMEX/SINCLAIR NEWSLETTERS EXCHANGE PUZZLE

G	S	J	P	R	P	L	I	K	R	J	W	V	C	V	U	B	X	F	Q	I	N	Q	R	E	I	Y	R	Z	I	H	O
X	S	E	M	I	T	C	N	I	S	K	A	N	X	I	S	H	M	E	B	W	H	W	D	Q	R	G	Y	P	Q	A	T
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C	M	I	L	O	C	L	B	M	T	E	K	Q	M	S	Y	S	X	L	T	G	A	H	G	G	S	E	J	V	L	D	E
G	Z	D	E	P	O	L	E	G	G	Y	R	A	P	A	H	O	K	C	D	A	O	D	F	T	P	O	W	T	R	K	C
L	D	A	G	P	Q	U	A	E	V	M	B	K	G	I	M	U	N	Y	U	E	H	F	O	Q	R	M	B	X	R	A	N
V	Z	J	E	J	D	B	U	A	C	Y	Y	G	K	X	D	T	B	W	C	Q	P	A	C	C	T	A	L	K	G	X	G
I	S	T	U	G	M	S	S	W	K	W	M	R	U	U	D	H	I	B	Y	A	U	X	E	P	X	E	Y	N	Q	S	U
Z	R	S	H	J	V	T	K	L	W	S	Q	N	Q	M	O	B	Q	W	K	Z	H	O	T	M	G	U	E	G	X	V	E
G	U	A	F	M	V	Y	S	P	U	L	I	S	T	U	S	A	H	V	Q	V	C	E	Z	X	A	P	P	E	A	L	Z
R	E	T	T	O	L	P	H	Q	A	G	K	B	D	H	M	Y	U	D	N	W	M	B	C	E	Q	Q	E	F	D	S	E
J	F	C	S	U	C	N	I	S	A	K	J	Q	Y	I	G	N	K	Z	E	N	I	L	E	M	I	T	K	G	A	B	A

BOSTUG	The Boston Computer Society Boston, MA
CAPITOL	Capitol District T/S Computer Club Albany, NY
CATS	Capitol Area T/S U G Fairfax Station, VA
NITE TIMES	Chicago Area T U G Downers Grove, IL
CRAGIST	Cedar Rapids & Greater IOWA S/T Cedar Rapids, IA
HACKER	T/S U G of Las Vegas Las Vegas, NV
HATS	Harrisburg AREA T/S U G Harrisburg, PA
ISTUG	Indiana S/T U G Peru, IN
KATS	Kansas Area T/S U G Wichita, KS
LIST	Long Island S/T Group Valley Stream, NY
PACC TALK	Pittsburgh Area Computer Club Pittsburgh, PA
PLOTTER	Clackamas County Area T/S Oregon City, OR
QL TECHNICAL	Ottawa-Hull T/S U G Ottawa, Ontario, CANADA
QZX	Amateur Radio & Sinclair Computers Las Cruces, NM
RAMTOP	Greater Cleveland S/T & Generic Computer U G Parma, OH
SINCLINK	Toronto T/S Users Club Toronto, Ontario, CANADA T/S Cambridge Silicon Valley Users Cupertino, CA
SINCTIMES	North East Florida T/S U G Jacksonville, FL
SINCUS	Sinclair Computer Users Society Johnson City, NY
SLUG	Sinclair Louisville U G Louisville, KY
SMUG BYTES	Sinclair Milwaukee U G Milwaukee, WI
SOUTH BAY	South Bay T/S U G Manhatten Beach, CA
SWYN	Seattle Area T/S U G Tacoma, WA
TIMELINEZ	T/S Cambridge Silicon Valley Users Cupertino, CA
TS BULLETIN	Ottawa-Hull T/S U G Ottawa, Ontario, CANADA
VISTA	Vachon Island S/T Association Vachon, WA
ZX APPEAL	Vancouver Sinclair U G Vancouver, B.C., CANADA

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 10 REM \CUBE-IT\VERSION 2.1\7-
86\RWH\
 20 CLEAR 64736: POKE 23658,8:
LET MUSIC=700: LET FAT=820: LET
THIN=880: GO SUB 800: GO SUB THI
N
 30 LET A$="ETAONRISHDLFCMUGYPW
BVKXJQZ": LET L$="_____
_____"
 50 REM Continue
 100 REM -TITLE PAGE-
 105 BORDER 5: BRIGHT 1: PAPER 5
: INK 0: BRIGHT 0: CLS
 110 PRINT '"    ";TAB 21;"
"
 115 PRINT "    ";TAB 22;"  "
 120 PRINT "    ";TAB 22;"  "
 125 PRINT "    ";TAB 22;"  "
 130 PRINT "    ";TAB 22;"  "
 135 PRINT "    ";TAB 21;"
"
 140 PLOT 64,150: DRAW 0,-30: DR
AW 20,0: PLOT 83,150: DRAW 0,-30
: DRAW 5,0: PLOT 66,150: DRAW 0,
-30: PLOT 83,150: DRAW 0,-30
 145 PLOT 96,166: DRAW 0,-46: DR
AW 20,0: DRAW 0,30: DRAW -18,0:
PLOT 98,166: DRAW 0,-46: PLOT 11
4,120: DRAW 0,30
 150 PLOT 128,135: DRAW 18,0: DR
AW 0,15: DRAW -20,0: DRAW 0,-30:
 DRAW 20,0: DRAW 0,5: PLOT 144,1
50: DRAW 0,-15: PLOT 128,150: DR
AW 0,-30: PLOT 144,120: DRAW 0,5
 155 PLOT 208,166: DRAW 0,-46: D
RAW 20,0: DRAW 0,5: PLOT 198,150
: DRAW 22,0: PLOT 210,166: DRAW
0,-46: PLOT 226,120: DRAW 0,5
 160 PRINT '" A FUN-FOR-ALL WORD
 SEARCH GAME"
 165 PRINT "By: Ralph Hammer, La
s Vegas, Nev";L$
 175 REM -POETRY-
 180 GO SUB FAT: PRINT '''"GRAB A
 PEN, AND SOME PAPER, IT'STIME T
O PLAY A WORD SEARCH CAPER"
 185 PRINT '"PLAY IT SOLO, EVEN
TWO OR MORE. SEE WHO GETS THE FI
RST HI SCORE."
 190 PRINT '"NOW DON'T BE SHY, O
R VERY TARDY.PUSH A KEY FOR A SE
ARCHING PARTY"
 195 GO SUB THIN: GO SUB MUSIC
 200 PAUSE NOT X: BEEP .05,5
 225 REM -MENU-
 230 BORDER 4: BRIGHT 1: PAPER 4
: CLS
 235 PRINT INK 7'TAB 10; PAPER 2
;" CUBE-IT "
 240 INK 0: GO SUB FAT: PRINT TA
B 10; PAPER 6;" M E N U "
 245 PRINT AT 7,0;"SELECT 1-5:";
 GO SUB THIN: PRINT '" 1. INSTRU
CTIONS"'" 2. HOW TO SCORE ""CUB
E-IT""'" 3. PLAY GAME"'" 4. M
AKE BACK-UP TAPE"'" 5. QUIT"
 255 PAUSE 0: LET I$=INKEY$: BEE
P .05,5
 260 IF I$="1" THEN GO TO 900
 265 IF I$="2" THEN GO TO 1100
 270 IF I$="3" THEN GO TO 300
 275 IF I$="4" THEN GO TO 1300
 280 IF I$="5" THEN GO TO 1350
 285 GO TO 255
 300 REM -GAME-
 305 BORDER 6: BRIGHT 1: PAPER 6
: CLS
 310 GO SUB 1500: GO SUB THIN
 315 PRINT FLASH 1;AT 12,2;"  M  I
  X  I  N  G    L  E  T  T  E  R  S  "
 320 FOR I=1 TO 10: FOR J=0 TO 1
5: BEEP .003,J: NEXT J: NEXT I
 325 GO SUB 1500: RANDOMIZE : LE
T R=PEEK 23670+256*PEEK 23671
 330 GO SUB 1700: GO SUB THIN
 400 REM -TIMER-
 410 BEEP .2,10: PAPER 2: INK 7:
 BRIGHT 1: PRINT AT 18,10;"
"
 415 LET Y=PEEK 23672: FOR M=0 T
O 1: FOR S=0 TO 59: FOR T=0 TO 9
 420 LET X=PEEK 23672: IF ABS (X
-Y)<=5 THEN GO TO 420
 425 LET Y=X: PRINT AT 18,13;M;"
:";S;TAB 17;":";T: NEXT T: BEEP
.005,1
 430 NEXT S: NEXT M: BEEP .3,10:
 BEEP .3,15
 435 PRINT AT 18,13;"2:00:0": BE
EP .3,10: BEEP .3,15
 440 INK 0: PRINT AT 20,10; FLAS
H 1; PAPER 7;" TIME IS UP "
 445 PAPER 6: PAUSE 120
 500 REM -CHOOSE-
 505 GO SUB 1500: PRINT AT 9,2;"
<R> RE-DRAW CUBE FOR SCORING"
 510 PRINT '"  <C> COPY CUBE TO
PRINTER"'"  <A> ANOTHER GAME"'
"  <M> MAIN MENU": GO SUB THIN
 515 PAUSE 0: LET I$=INKEY$: IF
I$="C" THEN LET S=0: GO TO 530
 520 IF I$="A" THEN GO TO 300
 525 IF I$<>"R" THEN GO TO 225
 530 PAPER 4: GO SUB 1500: RANDO
MIZE R: GO SUB 1700: GO SUB 1200
: GO SUB THIN: IF NOT S THEN COP
Y
 535 PRINT #0;AT 1,0;"    <C>OPY
  <P>LAY  <M>ENU": PAUSE 0: IF I
NKEY$="C" THEN COPY : GO TO 535
 540 IF INKEY$="P" THEN GO TO 30
0
 545 GO TO 225
 600 REM -FRAME-
 605 PLOT 57,150: DRAW 142,0: PL
OT 58,149: DRAW 139,0: PLOT 59,1
48: DRAW 138,0
 610 PLOT 57,50: DRAW 142,0: PLO
T 58,51: DRAW 139,0: PLOT 59,52:
 DRAW 138,0
 615 PLOT 199,150: DRAW 0,-100:
PLOT 198,150: DRAW 0,-99
 620 PLOT 57,150: DRAW 0,-100: P
LOT 58,149: DRAW 0,-99: PLOT 199
,150: DRAW 0,-100: PLOT 198,150:
 DRAW 0,-99
 625 LET X=57: LET Y=140: LET Z=
0
 630 PLOT X,132: DRAW Y,Z: PLOT
X,115: DRAW Y,Z: PLOT X,100: DRA
W Y,Z: PLOT X,84: DRAW Y,Z: PLOT
 X,68: DRAW Y,Z
 635 LET X=150: LET Y=0: LET Z=-
99
 640 PLOT 80,X: DRAW Y,Z: PLOT 1
04,X: DRAW Y,Z: PLOT 128,X: DRAW
 Y,Z: PLOT 152,X: DRAW Y,Z: PLOT
 175,X: DRAW Y,Z
 645 RETURN
 700 REM -MUSIC-
 705 FOR X=0 TO 100
 710 LET F=INT (RND*256)
 715 SOUND 0,F;8,15;7,62
 720 PAUSE 10: IF INKEY$<>"" THE
N LET X=0: GO TO 730
 725 NEXT X
 730 SOUND 7,63;8,0: RETURN
 800 REM -MC:FAT-
 805 DATA 17,0,253,213,1,0,3,42,
54,92,36,126,167,31,182,18,35,19
,13,32,246,16,244,225,37,34,54,9
2,201
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 810 FOR I=64737 TO 64765
 815 READ J: POKE I,J: NEXT I: R
ETURN
 850 REM -FAT-
 855 RANDOMIZE USR 64737: RETURN

 880 REM -THIN-
 885 POKE 23607,60: RETURN
 900 REM -INSTRUCTIONS-
 905 BORDER 5: BRIGHT 1: PAPER 5
: CLS
 910 GO SUB 1500
 915 PRINT INK 0;TAB 9; PAPER 6;
" INSTRUCTIONS "
 920 PRINT '"AS YOU START THE G
AME OF CUBE-ITA 6X6 LETTERED GRI
D WILL APPEAR."
 925 PRINT '"NEXT, A TWO (2) MIN
UTE TIMER    WILL START TICKING
OFF ELAPSED  TIME."
 930 PRINT '"START LOOKING FOR T
WO, THREE,   UP TO SIX (OR MORE)
 LETTER WORDSTHAT CAN BE FOUND W
ITHIN THE    GRID."
 935 PRINT '"WRITE DOWN ALL THE
WORDS THAT   YOU CAN FIND WITHIN
 THE TWO     MINUTE TIME LIMIT."
 940 GO SUB THIN: PRINT '"    PRE
SS ANY KEY TO CONTINUE"
 945 PAUSE 0: CLS : GO SUB FAT:
BEEP .05,5
 950 PRINT '"WORDS CAN BE FOUND
IN ANY DIREC-TION; HORIZONTALLY,
 VERTICALLY, AND DIAGONALLY."
 955 PRINT '"THEY CAN ALSO BE A
COMBINATION  OF ALL THREE DIRECT
IONS."
 960 PRINT '"WHEN FORMING A WORD
, A LETTER   MUST TOUCH THE NEXT
 LETTER      EITHER AT THE LINE,
 OR AT A     CORNER."
 965 PRINT '"DO NOT JUMP SQUARES
 TO FORM THE WORD.  DO NOT USE A
 LETTER TWICE"
 970 PRINT '"FOR EXAMPLE:"
 975 PRINT '""""ABY"" CANNOT BE U
SED TO SPELL   BABY."
 980 GO SUB THIN: PRINT '"    PRE
SS ANY KEY TO CONTINUE"
 985 PAUSE 0: CLS : GO SUB FAT:
BEEP .05,5
 990 PRINT '""""FOUND"" WORDS CAN
 NOT BE REUSED OR SCORED TWICE."
 995 PRINT '"IF TWO OR MORE PEOP
LE ARE GOING TO PLAY, IT IS RECO
MMENDED THAT THE FIRST PLAYER TO
 REACH 500   POINTS BE DECLARED
THE WINNER."
1000 PRINT '"ALL WORDS, INCLUDIN
G LEGAL NAMESAND ""SLANG"" WORDS
 ARE PERMITTED."
1005 PRINT '"ABBREVIATIONS AND F
OREIGN WORDS ARE NOT ALLOWED."
1010 PRINT '"GOOD LUCK, AND HAVE
 FUN !!!"
1020 GO TO 1600
1100 REM -SCORE-
1105 BORDER 5: BRIGHT 1: PAPER 5
1110 GO SUB 1500
1115 PRINT AT 1,19; INK 7; PAPER
 2;" I T ";AT 2,9; INK 0; FLASH
1; PAPER 6;" S C O R I N G "
1120 PRINT '" TO SCORE THE GAME
OF ""CUBE-IT""."
1125 PRINT "JUST COUNT THE NUMBE
R OF LETTERSIN EACH WORD."
1130 PRINT '"POINT VALUES ARE DI
STRIBUTED AS FOLLOWS:"'
1135 GO SUB 1200: GO TO 1600
1200 PRINT PAPER 6;" # OF LETTER
S";TAB 20;"POINT VALUE "'
1210 DATA 1,2,5,10,25
1220 RESTORE 1140: FOR I=2 TO 6:
 READ J: PRINT TAB 4;I;TAB 14;"=
";TAB 26-LEN STR$ J;J: NEXT I
1230 RETURN
1300 REM *TAPE BACK-UP*
1305 BORDER 2: BRIGHT 1: PAPER 2
: CLEAR
1310 PRINT #4: SAVE "CUBE.B1" LI
NE 10: BEEP 2,25
1315 GO TO 225
1350 REM -QUIT-
1355 BORDER 1: BRIGHT 1: PAPER 5
: CLS
1360 SOUND 7,62;8,15
1365 FOR I=50 TO 100
1370 SOUND 0,I: PAUSE 3
1375 NEXT I
1380 FOR D=1 TO 6: NEXT D
1385 SOUND 6,6;7,7;8,16;9,16;10,
16;12,56;13,8
1390 PAUSE 90
1395 SOUND 8,0;9,0;10,0
1400 PRINT FLASH 1;AT 11,11;" SO
 LONG "; FLASH 0: STOP
1500 REM -LOGO-
1510 CLS : INK 7: PRINT 'TAB 9;
PAPER 2;" C U B E  I T "
1520 GO SUB FAT: PLOT 142,164: D
RAW 6,0: INK 0: RETURN
1600 REM -SUBMENU-
1610 PRINT AT 17,0;L$'"    "; FL
ASH 1;"M"; FLASH 0;"ENU";
1620 PRINT TAB 14; FLASH 1;"P";
FLASH 0;"LAY";
1630 PRINT TAB 25; FLASH 1;"Q";
FLASH 0;"UIT"'L$
1640 GO SUB THIN: PRINT TAB 7;"S
ELECT M, P, OR Q"
1650 PAUSE 0: LET I$=INKEY$: BEE
P .05,5: IF I$="M" THEN GO TO 22
5
1660 IF I$="P" THEN GO TO 300
1670 IF I$="Q" THEN GO TO 1350
1680 GO TO 1650
1700 REM - PRINT LETTERS-
1710 PRINT '': BORDER 2: LET I=U
SR 2217: FOR I=1 TO 6
1720 PRINT TAB 8;: FOR J=1 TO 6
1730 LET T=INT (RND*26+1): IF T>
19 THEN IF INT (RND*2) THEN LET
T=0
1740 IF T>9 THEN IF INT (RND*2)
THEN LET T=0
1750 IF NOT T THEN GO TO 1730
1760 PRINT A$(T);"  ";
1770 NEXT J: PRINT '': NEXT I
1780 GO SUB 600: RETURN
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TIMEX sinclair